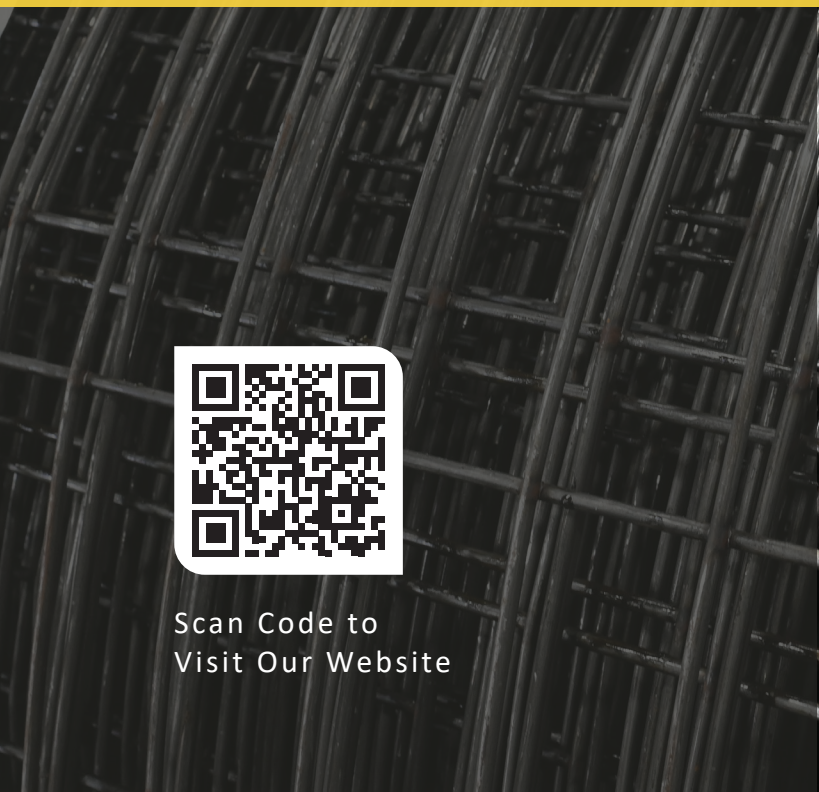
- Aluminum Extrusions
- Cable Products
- Cargo Safety Products
- Concrete
- Electrical
- Hose Clamps
- OEM
- Post Tension
- Shoring
- Trailer Parts
- **Wire Mesh**

UNIQUE FASTENER 2020 LLC

ALL INDUSTRIAL PRODUCT SOLUTIONS

WIRE MESH CATALOG

2024



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WIRE MESH

PC WIRE

Our company supply various types of PC wire including plain wire, chevron indented (deformed), 2-sided or 4-sided Oval Indented. During its stabilising process, the wire is heated to elevated temperature and the internal stress induced by wire drawing is released so that the finished product has more uniform elastic properties and greater resistance to stress corrosion. Our PC wire having the advantages of higher fatique, corrosion resistance, better performance at elevated temperature and low relaxation property.

PC wire is widely used for many industries, such as prestressed concrete piles, concrete poles, concrete beams, railway sleepers, pressure pipe, building panels (slabs or outer walls), etc.

A COMPARISON OF SPECIFICATION FOR PC WIRE

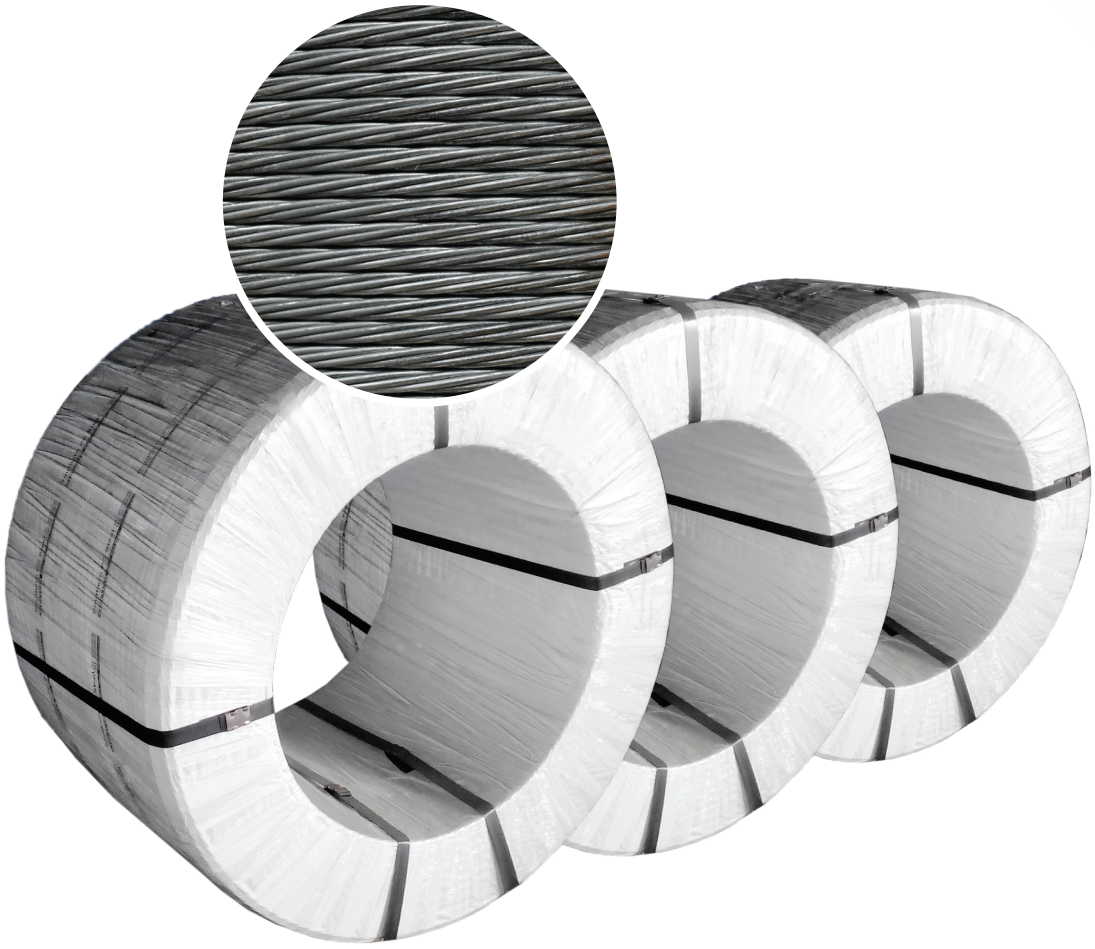
STANDARD	TYPE	NOTATION	NOMINAL DIAMETER	DIAMETER TOLERANCE	CROSS SECTION AREA		NOMINAL WEIGHT		MIN TENSILE STRENGTH	MIN BREAKING LOAD	MIN PROOF LOAD		REVERSE BENDS		MIN ELONGATION	LOW RELAXATION				TIME	REMARK
											0.1%	0.2%				MIN YIELD STRENGTH (kN)	INITIAL FORCE AT				
			mm	mm	mm2	TOLERANCE	kg/1000m	TOLERANCE	N/mm2	kN	kN	kN	Min Number	Radius (mm)	%		60%	70%	80%	hrs	
ASTM A421/ A421M-2010		TYPE BA	4.98	+/-0.05					1655	33.6					4.0	30.2		2.5% (Max)	3.5% (Max)	1000	* initial force (70% or 80%) of min. tensile strength
			6.35	+/-0.05					1655	52.4						47.2					
			7.01	+/-0.05					1620	62.5						56.3					
		TYPE WA	4.88	+/-0.05					1725	32.3						29.1					
			4.98	+/-0.05					1725	33.6						30.2					
			6.35	+/-0.05					1655	52.4						47.2					
			7.01	+/-0.05					1620	62.5						56.3					
BS 589:1980 (Amended 2007)	1670		4	+/-0.04	12.6	+/-0.25	98.9	+/-2.0	1670	21.0	17.5		4 for Plain wire 3 for indented & Ribbed wire	10	3.5	17.9	1.0% (Max)	2.5% (Max)	4.5% (Max)	1000	* initial force (70% or 80%) of actual breaking load
	1770		4	+/-0.04	12.6	+/-0.25	98.9	+/-2.0	1770	22.3	18.5			10		19					
	1620		4.5	+/-0.05	15.9	+/-0.35	125.0	+/-2.7	1620	25.8	21.4			15		21.9					
	1670		5	+/-0.05	19.6	+/-0.39	154.0	+/-3.1	1670	32.7	27.2			15		21.8					
	1770		5	+/-0.05	19.6	+/-0.39	154.0	+/-3.1	1770	34.7	28.8			15		29.8					
	1670		6	+/-0.05	28.3	+/-0.47	222.0	+/-3.7	1670	47.3	39.3			15		40.2					
	1770		6	+/-0.05	28.3	+/-0.47	222.0	+/-3.7	1770	50.1	41.6			15		42.6					
	1570		7	+/-0.05	38.5	+/-0.55	302.0	+/-4.3	1570	60.4	50.1			20		51.3					
	1670		7	+/-0.05	38.5	+/-0.55	302.0	+/-4.3	1670	64.3	53.4			20		54.7					
JIS G3536:1999		SWPR1 AND SWPD1	4	+/-0.04	12.57		98.7			21.1		18.6			3.5			2.5% (Max)		1000	* initial force (70%) of min. tensile strength
			5	+/-0.05	19.64		154.0			31.9		27.9			4.0						
			6	+/-0.05	28.27		222.0			44.1		38.7			4.0						
			7	+/-0.05	38.48		302.0			58.3		51.0			4.5						
			8	+/-0.06	50.27		395.0			74.0		64.2			4.5						
			9	+/-0.06	63.62		499.0			90.2		78.0			4.5						
AS/NZS 4672.1.2007	1670	STRESS RELEIVED WIRE	4		12.6		98.9	+/-2.0	1670	21.0	17.5	17.9	4 for Plain wire 3 for indented & Ribbed wire	10	3.5		1.0% (Max)	2.0% (Max)	3.0% (Max)	1000	* initial force (60%, 70% or 80%) of min. breaking load
	1770		4		12.6		98.9	+/-2.0	1770	22.3	18.5	19.0		10							
	1670		5		19.6		154.0	+/-3.1	1670	32.7	27.2	27.8		15							
	1770		5		19.6		154.0	+/-3.1	1770	34.7	28.8	29.5		15							
	1670		6		28.3		222.0	+/-3.7	1670	47.3	39.3	40.2		15							
	1770		6		28.3		222.0	+/-3.7	1770	50.1	41.6	42.6		15							
	1570		7		38.5		302.0	+/-4.3	1570	60.4	50.1	51.3		20							
	1470		8		50.3		395.0	+/-5.9	1470	72.9	60.5	62.0		20							
	1570		8		50.3		395.0	+/-5.9	1570	79.0	65.6	67.1		20							
	1670		8		50.3		395.0	+/-5.9	1670	84.0	69.7	71.4		20							
	1470		9		63.6		499.0	+/-7.2	1470	93.5	74.8	76.7		25							
MS 1138.2007	1670		4		12.6		98.9	+/-2.0	1670	21.0		17.9	4 for Plain wire 3 for indented & Ribbed wire	10	3.5		1.0% (Max)	2.5% (Max)	4.5% (Max)	1000	* initial force (60%, 70% or 80%) of min. breaking load
	1770		4		12.6		98.9	+/-2.0	1770	22.3		19.0		10							
	1670		5		19.6		154.0	+/-3.1	1670	32.7		27.8		15							
	1770		5		19.6		154.0	+/-3.1	1770	34.7		29.5		15							
	1670		6		28.3		222.0	+/-3.7	1670	47.3		40.2		15							
	1770		6		28.3		222.0	+/-3.7	1770	50.1		42.6		15							
	1570		7		38.5		302.0	+/-4.3	1570	60.4		51.3		20							
	1670		7		38.5		302.0	+/-4.3	1670	64.3		54.7		20							
	1570		8		50.3		395.0	+/-5.9	1570	79.0		67.1		20							
	1670		8		50.3		395.0	+/-5.9	1670	84.0		71.4		20							

WIRE MESH

PC STRAND

The wire rod used by Southern PC Steel to produce its prestressing products comes from carefully selected quality plant. The rod is cold drawn in our special wire drawing process to various sizes. Stranding is done on our modern design machine to minimise torsional stress in the wire and to add to its ultimate uniform quality. During its last production operation which is the stabilising process, the strand is heated to blueing temperature. At this temperature the internal stress induced by wire drawing and stranding is released so that the nished strand has more uniform elastic properties and greater resistance to stress corrosion.

In addition, it is also tensioned to a very high stress at elevated temperature. The result is a permanent elongation of approximately 1%, and an increase in yield strength of 5% over stress-relieved strand which means that Southern PC strand has very little remaining capacity for creep or relaxation.



A COMPARISON OF SPECIFICATION FOR PC STRAND

STANDARD	GRADE	NOTATION	NOMINAL DIAMETER	DIAMETER TOLERANCE	CROSS SECTION AREA		NOMINAL WEIGHT		PITCH	MIN BREAKING LOAD	MIN PROOF LOAD		MIN YIELD STRENGTH	MIN ELONG	LOW RELAXATION			TIME	REMARK
											0.1%	0.2%	kN						
			mm	mm	mm2		kg/1000m	TOLERANCE		kN	kN	kN	kN	%	60%	70%	80%	hrs	
MS 1138.2007 (Part 4)	1720	7WIRE ORDINARY	9.3		51.6		405	4% 2%	12-18D	88.8		75.3		3.5	1.0% (MAX)	2.5% (MAX)	4.5% (MAX)	1000	* initial force (60%, 70% or 80%) of min. breaking load
	1860		9.53		54.8		432			102		86.6							
	1860		12.7		98.7		774			184		156.0							
	1860		12.9		100.0		785			186		158.0							
	1720		15.2		139.0		1101			239		203.0							
	1860		15.2		139.0		1101			259		220.0							
	1770		15.7		150.0		1180			265		225.0							
ASTM A416/ A416M-12a	250		9.5	+/-0.40	52.0		405		12-16D	89			80.1	3.5		2.5% (Max)	3.5% (Max)	1000	* initial force (70% or 80%) of min. breaking load
			12.7		92.9		730			160			144.1						
			15.2		139.0		1090			240			216.2						
	270		9.53		55.0		430			102			92.1						
			12.7	+0.65	98.7		780			184			165.3						
			15.2	-0.15	140.0		1100			261			234.6						
			15.7		150.0		1200			279			251.4						
BS 5896:1980 (Amended 2007)	1860	7 WIRE STANDARD	15.2	+0.40	139	+4% -2%	1090	+4% -2%	12-18D	259	220		228	3.5	1.0% (Max)	2.5% (Max)	4.5% (Max)	1000	* initial force (60%, 70% or 80%) of actual breaking load
	1670		15.2	-0.20	139		1090			232	197		204						
	1860		9.3	+0.30	52		408			97	82		85						
	1770		9.3	-0.15	52		408			92	78		81						
	1860	7 WIRE SUPER	15.7	+0.40	150		1180			279	237		246						
	1770		15.7	-0.20	150		1180			265	225		233						
	1860		12.9		100		785			186	158		163						
	1860		9.6	+0.30 -0.15	55		432			102	87		90						
AS/NZS 4672.1.2007	1850	7 WIRE ORDINARY	9.5		55		432	+4% -2%	12-18D	102	83.6	86.6		3.5		2.5% (Max)	3.5% (Max)	1000	* initial force (70% or 80%) of min. breaking load
	1870		12.7		98.6		774			184	151	156							
	1750		15.2		143		1122			250	205	212							
	1830		15.2		143		1122			261	214	222							

WELD MESH

PRODUCTS

WELD MESH

WELD MESH PANEL FENCING

Anti-Climb / Anti-Cut Fence

An anti-climb/ Anti-cut fence is a type of fencing that makes it difficult to gain access to a property or grounds by climbing. Anti-climb fencing is used extensively by businesses an commercial organizations. Typically, it is used around storage yards and depots where valuable stock might be held.

Technical Specifications

- Anti-cut/ anti- climb welded mesh panels conforming to EN10223 (7 standards)
- Mesh panels of multiple dimensions are available
- **Anti-climbing:** More small openings, no toe or finger holds
- **Anti-cut:** Small openings make cutting very difficult by bolt cutters and wire cutters
- **Anti-rust:** Durable zinc or polymer powder coating ensure a long service life

Roll Top Fence

Welded Mesh Panel (50x200) makes the best fencing solution for residential fencing, school perimeter fencing & commercial complex fencing.

Technical Specifications

- **Wire Diameter -** 5mm
- **Mesh Gap -** 50x200
- **Height -** 6m
- **Width -** 3m

Generally, used in residential complexs, schools etc.

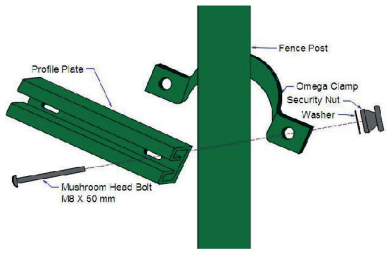
WELD MESH

Razor Blade Tape & Barded Wire

Our company manufactures superior quality of punched tape concertina coils and G.I. Barded wire catering to different industrial needs. These wires are actually wire with series of dangerously pointed pins or sharp tapes on it. This type of fencing is extremely difficult to cross, since they cut and tear anything falling on them.

Fencing Accessories

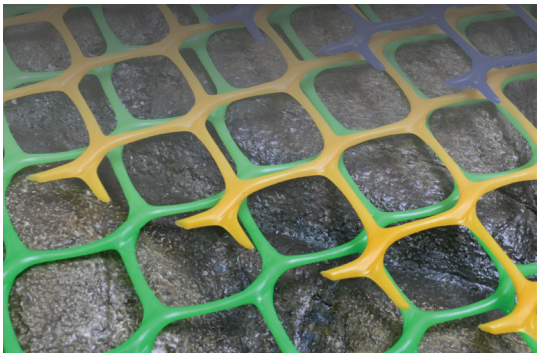
We provide all accessories for installation of fencing including Y-arms, posts, nuts and bolts. Our products also come in pre-galvanized, post-galvanized and powder coated types.



Polymer Fence

Polymer fences are manufactured from Virgin HDPE and additives under carefully controlled extrusion technology. The main advantages of Polymer Fence is:

It is lighter than metal meshes of same wire diameter and aperture size, UV-stabilized, durable, anti-corrosive and rust free. Easy to install, non reactive and weather resistant.

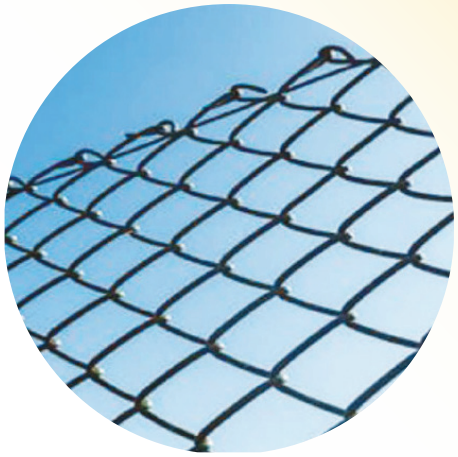


Agricultural fencing, residential use, landscapes, sports complex and resorts etc.

WELD MESH

Chain Link

Our galvanized/ PVC coated chain link fence can be fenced firectly or can be fixed with angle frames. Chain link fencing is an interlock fence used for providing barricades of parks, green belts, airports, power houses etc. Our chain link fencing also conforms to IS:2721:2003 specifications. Galvanized chain link fence that we offer is perfect for protecting boundaries from trespassing & intrusions.



Chain Link Fence Accessories

Barbed Wire Arm

Barbed wire arms are an essential piece to install boundary protection for a chain link fence. It is designed to fit like a post cap, while the top rail sides through the opening and 3 to 6 lines of barbed wire can be attached to the arm as one unit.

Line Post Cap

Line post caps have 2 utilities. It saves the fence post from weather and allows the top rail or tension wire through it. It is available in aluminum and galvanized steel.

WELD MESH

Tension Bend

Tension bands are used to secure GI chain link fence with the tension bar or gate frame.

Tension Bar (GI)

Tension bars are used vertically to fix the chain link fence with the terminal or straining post. They can also be used with gate posts.

Post Cap

Cover the top of fence posts and also protect the top of the fence post from rain water.

Truss Rod

The truss, installed from the bottom of the terminal post to the mid section of the first line post, pulls the mid brace towards the terminal post; in doing so, it counteracts the pull from the stretch on chain link fence fabric.

Top Rail Sleeve

Top rail sleeves ensures the durability and longevity of the fence. It is also used to repair bents without having to repair the entire rail.

Rail End (Steel)

These rail ends cups attach to the rail and terminal post aligned with the brace band for a secure connection of the rail and post.

WELD MESH

Brace Band

Chain link fence brace bands are used to horizontal rails, bottom tension wire and barbed wire to terminal posts.

Brace or Rail End Clamp

Chain link fence and clamps are used “Sandwich” the bottom/mid rail with the fence to get added strength.

Bullet Post Cap

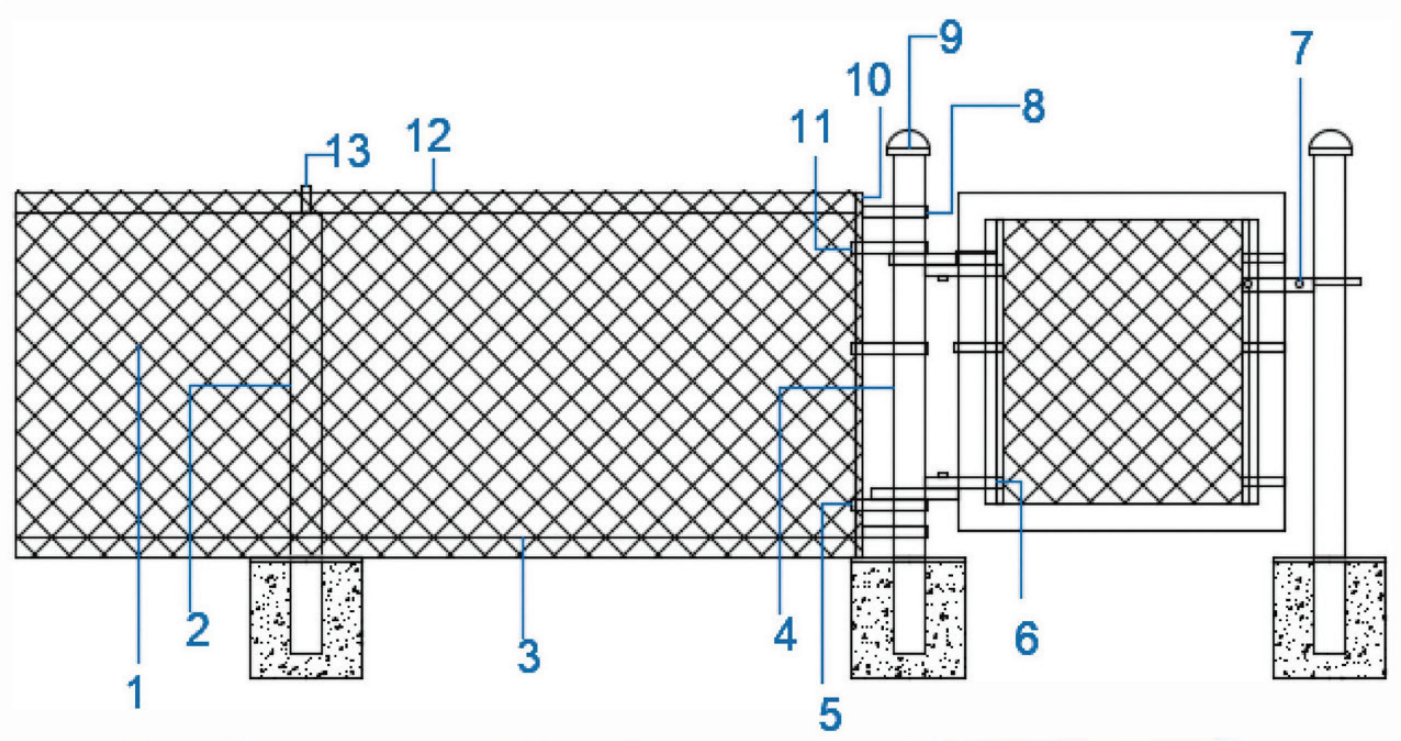
One Way Bullet Post Cap

Combo Rail End (Steel)

Y-Arms Upright

Truss Tighteners

WELD MESH



1. Chain Link Fence
2. Line Post
3. Tension Wire
4. Terminal Post
5. Gate Post Hinge
6. Gate Frame Hinge
7. Gate Fork Latch
8. Rail End Band
9. Terminal Post Cap
10. Tension Bar
11. Tension Band
12. Top Rail

WELD MESH

Powder Coating Solutions/ Services

Being a border fence manufacturer, we have developed two state of the art units for thermosetting and thermoplastic powder coating process.

If one is looking for a durable and decorative solution in coating, powder coating is one of the best technologies available right now. The thermosetting or theromoplastic resins form a constant and durable coat over the metal surface due to which the life of the product increases manifolds.

One of the best features of the powder coating is that one can use mutiple colors, shades and gloss depending on requirement.

Metal Fence

We manufactured metal fencing for residential and commercial applications. Our metal fencing range includes decorative metal railings, vertical bar railings, wall railings, and welded mesh panels, with options for retails and commerical properties, schools, transports, utilities, data center and high security sites. We provide metal fencing in hot dip galvanized or powder coated finish.

Application:

- School
- Transport
- Data Center
- High Security Sites
- Utilities

WELD MESH

Reinforcement Mesh

We are the leading manufacturing of reinforcement mesh which are used for commercial application. It is predominantly used as reinforcing fabric in concrete slabs, being immersed in concrete and vastly increasing the structural rigidity of a construction.

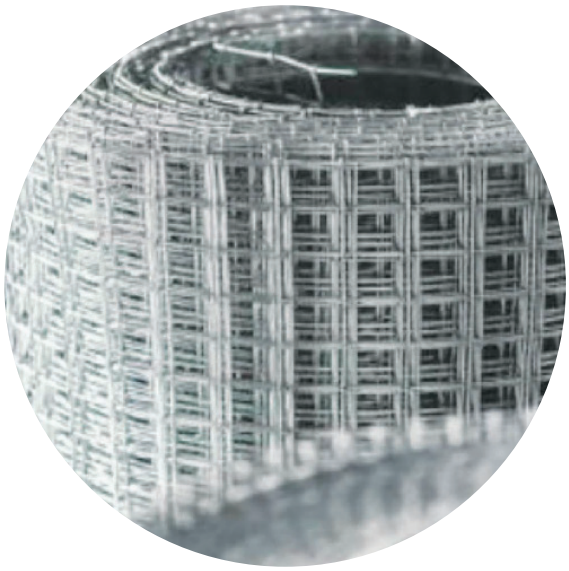
We strictly follow ASTM A185.

Technical Specifications

- **MOC -** Plain bars and ribbed (Plain/Ribbed Bar)
- **Mesh Panel size -** upto 3x6 meter
- **Wire Diameter -** upto 10 mm
- **Coating -** Post galvanized/ Power coated

Main Application Areas

- Tunnels and Bridges Construction
- Road Bed Construction
- Concrete Pavement
- Airport Runway
- Floor Slabs/ Non-Shear Walls
- Pre-Fab Structures



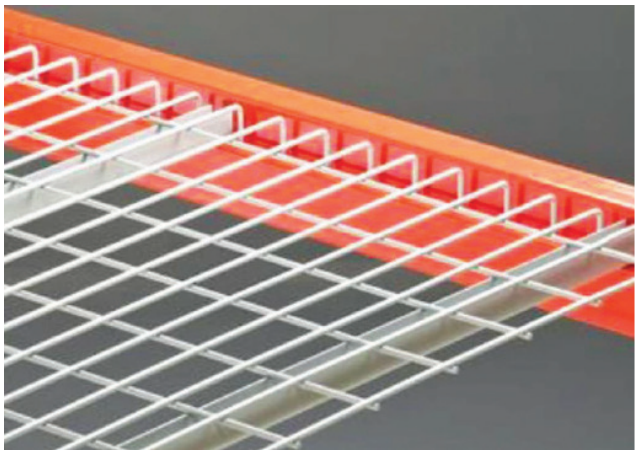
GI/MS Welded-Mesh Fence

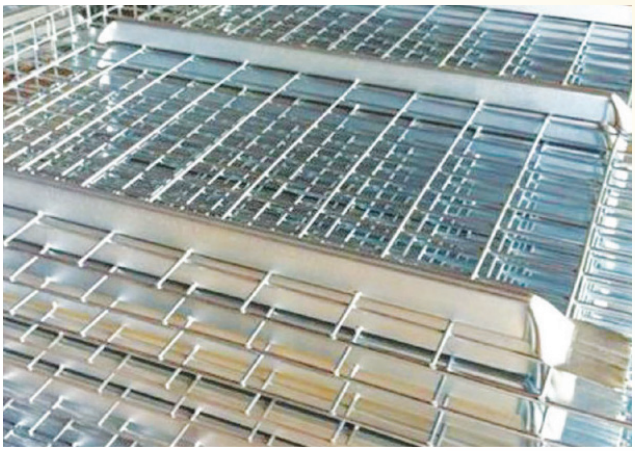
The welded wire mesh is a metal wire screen that is made up of MS, GI or SS wire.

It is available in various sizes and shapes. It is widely used in agricultural, industrial, transportation, horticultural and food procuring sectors. It is also used in mines, gardening, machine protection and other decorations.

WELD MESH

Wire Mesh Deck Panel





We are manufacturer of wire mesh desk panels. Our wire mesh deck panel is an excellent alternative to wood and corrugated steel decks. It increases fire safety in you facility by allowing flow-through from sprinkler water systems. There is no dust or debris build-up on the shelves becuase of the open mesh pattern thereby providing a cleaner work environment. Wire decking also provides a better visual of your inventory and helps illumination, air circulation and cooling of your facility. They are maintenance free, easy to install and consrtucted of durable strong wire mesh.

Application:

- Warehouse
- Airport
- Pharma Insdustry

OUR MISSION

CONNECTING YOUR EQUIPMENT WITH THE EXCEPTIONAL PRODUCTS

Our exceptional products come from leading manufacturers worldwide. With a 200,000 sq. ft. warehouse in Sugar Land, Texas.

We maintain a comprehensive stocking program, ensuring timely delivery and a constant inventory of two to three months. Count on us for peace of mind and reliable quality assurance at a competitive price. Unique Fasteners offers personalized service and connects your equipment with the right fasteners.

Contact Us

281.275.3900

www.uniquefasteners.com

12510 Cardinal Meadow Dr. Sugar Land, Texas 77478